



A.D. 1873, 12th *MAY*. N° 1715.

Regulating the Temperature of Vulcanizing Apparatus.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Alexander Jamieson at the Office of the Commissioners of Patents, with his Petition, on the 12th May 1873.

I, ALEXANDER JAMIESON, of Broad Street, Golden Square, London, do
5 hereby declare the nature of the said Invention for "IMPROVEMENTS IN
REGULATING THE TEMPERATURE OF VULCANIZING APPARATUS FOR VULCANIZING
INDIA-RUBBER USED IN THE MANUFACTURE OF ARTIFICIAL TEETH," to be as
follows :—

My improvement consists in the structure and manner of combining
10 the gas or heat regulating apparatus to the vulcanizing chamber or
boiler.

The regulating apparatus is composed of a tube, through which the
gas flows to the furnace or burner under the vulcanizing chamber or
boiler. The quantity of gas admitted to the burner through this tube is
15 regulated by the expansion and contraction of mercury, which is placed
in a suitable vessel in connection with the gas tube, and is exposed to
the action of the heat of the steam in the vulcanizing chamber or boiler,
and thereby keep the vulcanizer at any required temperature desired by

Jamieson's Impts. in Regulating the Temperature of Vulcanizing Apparatus.

regulating the quantity of gas allowed to pass to the burner or burners. The mercury by preference is placed in a glass tube or chamber, which is let into the top of the vulcanizer or boiler. The top of this chamber is provided with a metal tube through which the gas passes for being admitted to the furnace for heating the vulcanizing chamber or boiler. 5 When the heat of the steam in the vulcanizing chamber has reached the proper temperature, the mercury in the gas chamber expands, and closes or partly closes the gas tube (which is made to extend down in the mercury chamber) to cut off or regulate the supply of gas to the furnace, for keeping the vulcanizer at the proper temperature. The gas 10 tube is provided with a screw thread and nut at the top for regulating its depth in the mercury chamber, and a spring or other analogous means is employed for holding it to its place.

This heat regulating apparatus may be applied to any existing known form of vulcanizing chambers now in common use. 15

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